

Title (en)  
INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND NON-TRANSITORY COMPUTER-READABLE MEDIUM

Title (de)  
INFORMATIONSVERRARBEITUNGSSYSTEM, INFORMATIONSVERRARBEITUNGSVORRICHTUNG,  
INFORMATIONSVERRARBEITUNGSVERFAHREN UND NICHTTRANSITORISCHES COMPUTERLESBARES MEDIUM

Title (fr)  
SYSTÈME DE TRAITEMENT D'INFORMATIONS, DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCÉDÉ DE TRAITEMENT D'INFORMATIONS ET SUPPORT NON TRANSITOIRE LISIBLE PAR ORDINATEUR

Publication  
**EP 4260777 A1 20231018 (EN)**

Application  
**EP 21903302 A 20211202**

Priority  
• JP 2020204674 A 20201210  
• JP 2021044331 W 20211202

Abstract (en)  
An information processing system (1) includes an acquisition unit (1a), a first sensor (1b) detecting entry/exit of a person to/from a toilet, a second sensor (1c) detecting leaving and sitting on a toilet seat installed on a toilet bowl, an authentication unit (1d), a storage unit (1e), and an output unit (1f). The acquisition unit (1a) acquires excretion information indicating at least a start and an end of excretion, based on imaging data captured by an image capture apparatus installed in such a way as to include, in an image capture range, an excretion range of excrement in the toilet bowl of the toilet. The authentication unit (1d) authenticates a person who has performed entry/exit, and also determines whether the person is a person to be assisted as a user of the toilet or a helper. The output unit (1f) outputs notification information to a notification destination, based on a detection event indicated by the excretion information, entry/exit information, leaving/sitting information, and an authentication result, and a notification condition. The storage unit (1e) stores, as the notification condition, necessity of notification, and the notification information and the notification destination when notification is necessary, for each of the detection events.

IPC 8 full level  
**A47K 13/30** (2006.01); **A47K 17/00** (2006.01); **A61B 5/1171** (2016.01); **E03D 9/00** (2006.01); **G08B 21/00** (2006.01); **G08B 21/02** (2006.01); **G08B 25/00** (2006.01); **G08B 25/04** (2006.01)

CPC (source: EP KR US)  
**A47K 13/30** (2013.01 - KR); **A47K 17/00** (2013.01 - KR); **A61B 5/1171** (2016.02 - EP KR); **A61B 5/6891** (2013.01 - EP); **A61B 5/7465** (2013.01 - EP); **E03D 9/00** (2013.01 - EP KR); **G06V 20/52** (2022.01 - US); **G06V 40/23** (2022.01 - US); **G08B 21/02** (2013.01 - KR); **G08B 21/0423** (2013.01 - US); **G08B 21/0476** (2013.01 - US); **G08B 25/04** (2013.01 - KR); **G08B 21/0461** (2013.01 - EP)

Citation (search report)  
See references of WO 2022124198A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4260777 A1 20231018**; CN 116600690 A 20230815; JP 2022092102 A 20220622; JP 2023156282 A 20231024; JP 7323193 B2 20230808; KR 20230098342 A 20230703; US 2024038045 A1 20240201; WO 2022124198 A1 20220616

DOCDB simple family (application)  
**EP 21903302 A 20211202**; CN 202180082873 A 20211202; JP 2020204674 A 20201210; JP 2021044331 W 20211202; JP 2023114199 A 20230712; KR 20237019100 A 20211202; US 202118039935 A 20211202